Redefine performance with cutting-edge infrastructure solutions

Lenovo | AMD

Organizations depend on the performance of their IT infrastructure to remain competitive in the marketplace. Utilizing outdated data center technologies, such as servers five years old or more, can result in increased operational and maintenance costs. Their performance lags behind newer servers, often leaving them unable to provide the cutting-edge workloads and capabilities needed to compete effectively in today's business landscape.

Lenovo servers, fueled by AMD processors – a tech duo that's redefining possibilities

From the enhanced memory performance of DDR5 to the ultra-fast data transfer speeds of PCIe Gen 5, Lenovo servers powered by AMD processors set new performance boundaries. In fact, Lenovo servers powered by AMD EPYC™ processors boast an outstanding 190+ benchmarking records.[1] And for a remarkable eleven years straight, Lenovo servers have earned recognition as the industry's reliability champion.[2]

Together, Lenovo and AMD are meeting today's increasing IT demands – from AI to Virtualization and beyond – through industry-leading performance, reduced costs and improved organizational results.

200% more compute performance: means wins for your business[3]

Consolidate your servers

Lenovo V3 servers with AMD EPYC™ processors **offer up to 3:1 server consolidation** over older servers, helping to helping to optimize efficiency and costs.[4]

up to **3 to 1** server consolidation

supports **150%** more cores

Support more processor cores

AMD EPYC processors in ThinkSystem servers can support **150%** more cores than prior generation ThinkSystem servers.[5]

Better performance for virtualized applications

Achieve up to 88% better performance for virtualization applications than the previous generation of ThinkSystem servers.[6]

up to **88%** better virtualization performance
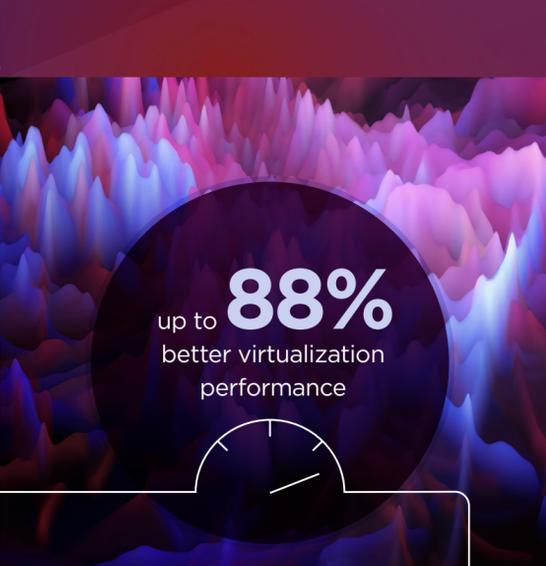
up to **2.6x** more memory bandwidth

Get more memory bandwidth

Up to **2.6x** more memory streaming bandwidth improvement with DDR5 over DDR4.[7]

Power and speed for AI and ML

Double the data transfer rate with PCI Gen 5 for faster AI inferencing and machine learning.[8]

2x the data transfer rate

Competitiveness requires a modern infrastructure that is powerful, reliable, and highly scalable. It must be ready for "what's next", and able to deliver your data and services and support new and emerging applications.

Infrastructure modernization matters.

The longer you delay, the higher the potential costs and performance setbacks.

Are you ready to take the next step?

Learn more

[1] https://www.amd.com/en/products/processors/server/epyc/epyc-world-records.html, as of 11/14/25.
[2] ITIC Reliability Study, November 2024; https://press.lenovo.com/2017-11/reliability-study.
[3] Lenovo SR665 V3 with 2xAMD EPYC 9645 160-core processors achieved a SPECrate®2017_fp_base score of 2140 compared to 638 for the Lenovo SR665 with 2x AMD EPYC 7763 64-core processors. See https://www.spec.org/cpu2017/results/res2021q3/cpu2017-20210520-25156.html and https://www.spec.org/cpu2017/results/res2024q1/cpu2017-20240302-41548.html for complete details. Results are current as of 11/14/2025. See http://www.spec.org/ for additional information. SPEC, SPEC ACCEL®, SPEC CPU®, SPEC HPC®, SPEC OMP®, SPEC VIRT_SC®, SPECfp®, SPECint®, and SPECpower_ssj® are trademarks of the Standard Performance Evaluation Corporation (SPEC).
[4] VMmark 3.1 results, as of 11/14/25. Two Lenovo ThinkSystem SR665 V3 servers, each with two AMD EPYC 9654 processors, scored 40.68 @ 42 tiles. See https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2023-06-13-Lenovo-ThinkSystem-SR665V3.pdf for further details. Two AMD EPYC servers, each with two AMD EPYC 7702 processors, scored 12.78 @ 14 tiles. See https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2019-08-07-HPE-ProLiant-DL385Gen10.pdf for further details. To find out more about VMmark, visit https://www.vmware.com/products/vmmark.html. VMware® and VMmark® are trademarks or registered trademarks of VMware, Inc. VMmark VMware is a product of VMware, Inc. Actual consolidation results will vary based on many factors.
[5] https://lenovopress.lenovo.com/lp1608-thinksystem-sr665-v3-server Explanation: The SR665 V3 supports up to 2x160-core processors = 320 cores max. The previous generation system (SR665) supported up to 2x64-core processors = 128 cores max.
[6] VMmark 3.1 results, as of 11/14/25. Two Lenovo ThinkSystem SR665 V3 servers, each with two AMD EPYC 9654 processors, scored 40.68 @ 42 tiles. See https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2023-06-13-Lenovo-ThinkSystem-SR665V3.pdf for further details. Two previous generation Lenovo ThinkSystem SR665 servers, each with two AMD EPYC 7763 processors, scored 21.58 @ 24 tiles. See https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/vmmark/2021-05-04-Lenovo-ThinkSystem-SR665.pdf for further details. To find out more about VMmark, visit https://www.vmware.com/products/vmmark.html. VMware® and VMmark® are trademarks or registered trademarks of VMware, Inc. VMmark VMware is a product of VMware, Inc.
[7] Based on Lenovo internal testing comparing the memory bandwidth of Lenovo ThinkSystem SR665 V3 servers with AMD Milan (12 channels of DDR5 @ 6400MHz) to Lenovo ThinkSystem SR665 servers with AMD Milan (8 channels of DDR4 @ 3200MHz).
[8] https://www.techtarget.com/searchstorage/definition/PCIe-SSD-PCIe-solid-state-drive.

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